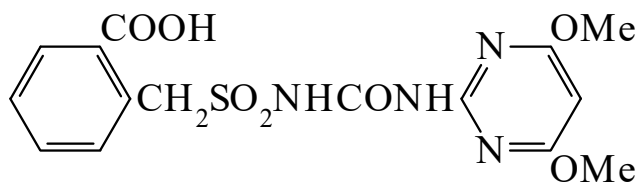




>>Entry Name: Bensulfuron, ANSI, BSI, WSSA

Synonym(s): 2-[[[(4,6-Dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]methyl]benzoic acid, 9CI. α -(4,6-Dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-*o*-toluic acid. α -[3-(4,6-Dimethoxypyrimidin-2-yl)ureidosulfonyl]-*o*-toluic acid



CAS Registry Number: 99283-01-9

Molecular Formula: C₁₅H₁₆N₄O₇S

Molecular Weight: 396.38

Accurate Mass: 396.073971

Percentage Composition: C 45.45%; H 4.07%; N 14.13%; O 28.25%; S 8.09%

Use/Importance: Herbicide

>>Derivative: Me ester

Synonym(s): Bensulfuron-methyl. Londax. DPX F5384

CAS Registry Number: 83055-99-6

Molecular Formula: C₁₆H₁₈N₄O₇S

Molecular Weight: 410.407

Accurate Mass: 410.089621

Percentage Composition: C 46.83%; H 4.42%; N 13.65%; O 27.29%; S 7.81%

Use/Importance: Herbicide. Branched chain amino acid synthetase inhibitor

Physical Description: Solid

Melting Point: Mp 185-188°

Hazard & Toxicity: LD₅₀ (rat, orl) >5000 mg/kg

References:

- Kelley, M.M. *et al.*, *J. Agric. Food Chem.*, 1985, **33**, 962, (activity)
Kong, F. *et al.*, *Huaxue Shiji*, 1990, **31**, 211; *CA*, **114**, 101765f, (synth)
Hill, J.E. *et al.*, *Weed Technol.*, 1990, **4**, 838, (activity)
Babczinski, P. *et al.*, *Pestic. Sci.*, 1991, **31**, 305, (activity)
Pesticide Manual, 9th edn., 1991, 62